PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-147347
(43)Date of publication of application : 21.05.2003

(51)Int.Cl. C09K 11/06
C08G 61/12
G02F 1/13357
H05B 33/14
H05B 33/22

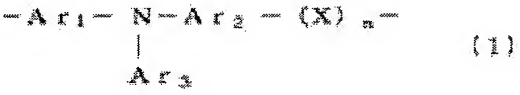
(21)Application number : 2002-210842
(22)Date of filing : 19.07.2002

(71)Applicant : SUMITOMO CHEM CO LTD
(72)Inventor : NOGUCHI MASANOBU
DOI HIDEJI

(30)Priority
Priority number : 2001219495 Priority date : 19.07.2001 Priority country : JP

(54) POLYMER PHOSPHOR AND POLYMERIC LUMINESCENT ELEMENT MADE BY USING IT

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a triarylamine based polymer phosphor which is excellent in e.g. the quantum efficiency of fluorescence and the luminous efficiency of an element made therefrom.
SOLUTION: This polymer phosphor contains repeating units represented by formula (1) [wherein Ar1 and Ar2 are each arylene or a divalent heterocyclic ring group; Ar3 is an aryl group having one or more substituents, through nuclear substitution, represented by the formula (2): -Y-Ar4 [wherein Ar4 is an aryl, a monovalent heterocyclic ring group or a monovalent aromatic amine group; and Y is -CR3=CR4- (wherein R3 and R4 are each H, an alkyl, an aryl, a monovalent heterocyclic ring group or cyano) or -C≡C-], or a monovalent heterocyclic ring group having one or more substituents, through nuclear substitution, represented by the formula (2); X is -CR1=CR2- (wherein R1 and R2 are each H, an alkyl, an aryl, a monovalent heterocyclic ring group or cyano) or -C≡C-; and n is 0 or 1] and has visible fluorescence in a solid state.



(1)